

AMENDMENTS TO THE CLAIMS

Claims 1-20 (canceled)

21. (currently amended) A method of transmitting signalling reports from a mobile station to a serving base station in a cellular communications system comprising a network infrastructure and a plurality of base stations connected thereto, the method comprising:

transmitting radio measurement reports intended for use by the serving base station to allocate a radio resource to the mobile station; and

transmitting a radio resource signalling report intended for use by a service node in the network infrastructure to allocate a radio ~~resource~~ resource to the mobile station.

22. (previously added) The method of Claim 21, further comprising encapsulating the radio resource signalling reports in the form of a mobile-originating SMS message.

23. (previously added) The method of Claim 21, wherein the transmitting the radio resource signalling report occurs during a dedicated channel traffic connection for the mobile station.

24. (previously added) The method of Claim 21, wherein the radio resource signalling report comprises downlink quality data measured for the serving base station.

25. (previously added) The method of Claim 21, wherein the radio resource signalling report comprises signal strength data measured for neighboring cell base stations.

26. (currently amended) The method of Claim 21, wherein the radio resource signalling ~~data-report~~ comprises data specifying the current requirements of the mobile station.

27. (previously added) The method of Claim 26, wherein the current requirements comprises at least one of bandwidth signal-to-noise ratio, radio path loss, cost and quality of service requirements.

28. (previously added) The method of Claim 21, wherein the transmitting the radio resource signalling report occurs in response to a request from the cellular communications system.

29. (previously added) The method of Claim 21, wherein the transmitting the radio resource signalling report occurs in response to a request from the user.

30. (currently amended) A method of transmitting radio resource signalling reports from a mobile station in a cellular communications system, wherein the radio resource signalling

reports are intended for use by a service node to allocate a radio resource to the mobile station, and wherein the reports are transmitted comprising:

~~transmitting the reports~~ in the form of mobile-originating SMS messages.

31. (currently amended) A method of transmitting signalling reports from a mobile station to a cellular communications system comprising a plurality of base stations including a base station serving the mobile station via a radio link, the method comprising:

encapsulating a radio resource signalling report before transmission over the radio link, such as to prevent the serving base station from intercepting the radio resource signalling report, wherein the radio resource signalling reports are intended for use by a service node to allocate a radio resource to the mobile station.

32. (currently amended) A mobile station for a cellular communications system, comprising a transmitter configured to transmit radio measurement reports intended for use by a serving base station to allocate a radio resource to the mobile station, and to transmit a radio resource signalling report intended for use by a service node in a network infrastructure to allocate a radio resource to the mobile station.

33. (currently amended) A cellular communications system comprising:

a plurality of base stations adapted to conducting communications with mobile stations via a radio interface; and

a service node adapted to receive radio resource signalling reports generated by mobile stations when in connected mode in the system, wherein the radio resource signalling reports are intended for use by a service node to allocate a radio resource to the mobile station, and wherein the system being is arranged to route the reports from the plurality of base stations to the service node.

34. (currently amended) The system of Claim 33, wherein the radio resource signalling reports comprise at least one of downlink quality data measured by the mobile stations and neighbor cell signal strength data measured by the mobile stations.

35. (previously added) The system of Claim 33, wherein the radio resource signalling reports comprise data specifying bandwidth and at least one of cost and quality of service requirements for the mobile stations.

36. (previously added) The system of Claim 33, wherein the service node is adapted to select radio access nodes to be allocated to the mobile stations on the basis of the reports.

37. (previously added) The system of Claim 36, wherein the service node is adapted to select radio access nodes to be allocated to the mobile stations on the basis of individual bandwidth and at least one of quality of service and cost requirements for the mobile stations.

38. (previously added) The system of Claim 33, wherein the base stations are adapted to select radio resources to be allocated to the mobile stations on the basis of radio measurement reports received from the mobile stations.

39. (previously added) The system of Claim 33, wherein the system is adapted to transmit a request for the one of the reports to one of the mobile stations in response to a change in the service conditions for the one mobile station.

40. (previously added) The system of Claim 33, further comprising means for extracting the radio resource signalling reports from SMS messages received from the mobile stations.

41. (new) The system of Claim 33, wherein the service node stores data comprising at least one of a radio link quality, a list of target radio access nodes, personal subscriber profile and service information, and operational parameter criteria, and wherein the service node uses the data to allocate a radio resource to the mobile station.

42. (new) The method of Claim 21, wherein the radio measurement reports comprise quality index numbers.

43. (new) The method of Claim 21, wherein the service node additionally uses personal subscriber profile and service information to allocate a radio resource to the mobile station.

44. (new) The method of Claim 43, wherein the personal subscriber profile and subscriber information includes at least one of bandwidth requirements, quality of service requirements, access rights, priority and preference lists, environment selection, and providers selection.